WAGENOY SHAME

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18TH STREET - SUITE 500 DENVER, CO 80202-2466

INITIAL POLLUTION REPORT VASQUEZ BLVD. & I-70 (aka North Denver Residential) City and County of Denver, Colorado

I. HEADING

Date: 10/13/98

Site Name: Vasquez Blvd. & I-70

(aka North Denver Residential)

From: Pete Stevenson, OSC

To: Patty Smith, EPA Headquarters

POLREP No.: Initial

II. BACKGROUND

Site No.: 9R

Response Authority: CERCLA

Action Memorandum: September 16, 1998 Start Date: October 13, 1998

Demobilization Date: TBD Completion Date: TBD

III. SITE INFORMATION

A. Incident Category

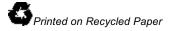
Time-Critical, Fund-Lead, Removal Action

B. Site Description

1. Site Location

The Site is located in the northwest part of Denver and generally is bounded by the South Platte River on the West, Colorado Boulevard on the East, 35th Avenue on the South, and 52nd Avenue on the North.

2. Site Characteristics



The Site area was settled in 1851, four years after the first pioneers entered the valley. Approximately 5700 people currently live in Elyria and Swansea, the predominant neighborhoods in the Site area. Youth under 18 comprise 36% of the residents (twice the average of the City of Denver).

Soon after development of the area, it was presumably contaminated by wastes containing lead and arsenic from smelting operations in the area. At least three smelters operated in the area in the late 1800s. These smelters reportedly deposited wastes within or adjacent to the Site.

3. Description of Threat

Arsenic and, to a lesser degree, lead have been identified at the Site as the contaminants of concern. Arsenic and lead are hazardous substances, as defined by Section 101 (14) of CERCLA. These hazardous substances may have been released into the residential soils by historic smelting activities and spread through the Community by aerial deposition. At least 21 properties contain arsenic and lead at levels of concern to the Removal Program.

Because arsenic contamination is found in unsodded areas that are used for recreation, there is also a potential for contaminated soil to be wind-blown and dust-sized particles to be transported by wind and human activities into additional yards and into homes.

There are an estimated 6000 cubic yards of soil contaminated above the selected Removal Program health protective action level of 2000 ppm lead and/or 450 ppm arsenic.

IV. RESPONSE INFORMATION

A. Situation

1. Action description

The following represents factors considered in determining whether properties within the community will

be included within EPA's time critical removal action. These criteria were developed with input from EPA toxicologists, technical staff, and CDPHE/Denver personnel. They are based on the need to provide immediate reduction in exposure to arsenic/lead contaminated soil. These factors are considered on a zone-by-zone basis to establish whether an individual zone should be addressed to safeguard the overall residential yard for a young child. Both current and potential future exposures must be considered in applying the criteria.

Currently 21 properties have tentatively been identified as candidates for this Removal Action. These and additional properties will be addressed as follow-up sampling results indicate that levels exceed the action levels and other criteria discussed above. Additional properties may be found that qualify for Removal. Further, soil on identified properties that do not exceed the Removal Action level may be removed for economic reasons if they are at or near the action level.

Zones on properties will generally be included in the Removal Action if the average surface soil concentration (top 2") exceeds 2000 mg/kg of lead or 450 mg/kg of arsenic. In these instances soil will be removed to a 12" depth - for vegetable gardens soil will be removed to 18". This strategy provides two layers of protection. A protective barrier of at least twelve inches of clean material will be established for all zones. Secondly, if in the future this barrier is disrupted, average surface concentrations will remain below a health protective level. The depth of all removals will be 12". This depth provides an adequate barrier between soil contamination, if any, and children. In vegetable gardens removal of 18" will provide adequate protection under typical day-to-day exposure scenarios.

Owners will be asked for permission to remediate their residential areas. Detailed plans will be developed for the properties which are undergoing remediation, and owners will be provided copies and an opportunity to discuss the plans. The removal schedule will be provided to the owner; and after the removal, replacement of sod, etc., each owner will review the action with the OSC and

discuss any future activities.

The EPA Contractor (START) began preliminary planning at the Site on September 28, 1998. Preliminary planning activities are now complete, and the soil removal was begun on October 13, 1998.

2. Project Schedule

Soil removal activites were started on 10/13/98, and the Removal Action (including monitoring of landscape restoration) is expected to be completed by Spring of 1999.

V. COST INFORMATION

The budget which was established for this Removal Action is \$985,000.